

## EAST Search History

| Ref # | Hits | Search Query   | DBs                                       | Default Operator | Plurals | Time Stamp       |
|-------|------|--|---|------------------|---------|------------------|
| S1    | 1635 | ((aluminum or germanium) with (boron or lithium or magnesium or sodium or potassium)) same (hydrogen with (stor\$5 or sorb\$5 or adsorb\$5))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR               | ON      | 2006/03/09 11:58 |
| S2    | 37   | ((aluminum or germanium) with (boron or lithium or magnesium or sodium or potassium)) same (hydrogen with (stor\$5 or sorb\$5 or adsorb\$5)) and 423/648.1-658.3.ccls.                         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR               | ON      | 2006/03/08 17:35 |
| S3    | 377  | ((aluminum or germanium) with (boron or lithium or magnesium or sodium or potassium)) and 423/648.1-658.3.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR               | ON      | 2006/03/09 12:38 |
| S4    | 101  | zhao-ji-cheng.in.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR               | ON      | 2006/03/09 11:58 |
| S5    | 9    | zhao-ji-cheng.in. and hydrogen   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR               | ON      | 2006/03/09 11:58 |
| S6    | 3943 | ((aluminum or germanium) with (boron or lithium or magnesium or sodium or potassium)) and "420"/\$.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR               | ON      | 2006/03/09 12:39 |
| S7    | 309  | ((((aluminum or germanium) with (boron or lithium or magnesium or sodium or potassium)) same hydrogen) and "420"/\$.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR               | ON      | 2006/04/29 17:26 |
| S8    | 727  | (((((aluminum or "Al") or ("Ge" or germanium)) with (("B" or boron) or ("Li" or lithium) or ("Mg" or magnesium) or ("Na" or sodium) or ("K" or potassium)))) same hydrogen) and "420"/\$.ccls. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR               | ON      | 2006/04/29 17:05 |
| S9    | 418  | S8 not S7  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR               | ON      | 2006/03/09 13:06 |
| S10   | 486  | (((((aluminum or "Al") or ("Ge" or germanium)) with ( ("Li" or lithium) or ("Mg" or magnesium) or ("Na" or sodium) or ("K" or potassium)))) same hydrogen) and "420"/\$.ccls.                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR               | ON      | 2006/03/09 13:11 |

## EAST Search History

|     |        |   |   |    |    |                  |
|-----|--------|---|---|----|----|------------------|
| S11 | 237    | S10 not S7  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/03/09 13:11 |
| S12 | 472151 | ((lithium or "Li") or (Sodium or "Na") or (Potassium or "K") or (Aluminum or "Al") or (Magnesium or "Mg") or (calcium or "Ca")) with ((Silicon or "Si"))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/03/13 11:21 |
| S13 | 1009   | ((lithium or "Li") or (Sodium or "Na") or (Potassium or "K") or (Aluminum or "Al") or (Magnesium or "Mg") or (calcium or "Ca")) with ((Silicon or "Si"))) same (hydrogen with (sorb\$5 or adsorb\$5 or stor\$5))                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/03/13 11:22 |
| S14 | 125    | ((lithium or "Li") or (Sodium or "Na") or (Potassium or "K") or (Aluminum or "Al") or (Magnesium or "Mg") or (calcium or "Ca")) with ((Silicon or "Si"))) same (hydrogen with (sorb\$5 or adsorb\$5 or stor\$5)) and "423"/\$.ccls. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/03/13 13:16 |
| S15 | 1967   | ((lithium or "Li") or (Sodium or "Na") or (Potassium or "K") or (Aluminum or "Al") or (Magnesium or "Mg") or (calcium or "Ca")) with ((Silicon or "Si"))) same (hydrogen ) and "423"/\$.ccls.                                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/03/13 13:17 |
| S16 | 195    | ((lithium or "Li") or (Sodium or "Na") or (Potassium or "K") or (Aluminum or "Al") or (Magnesium or "Mg") or (calcium or "Ca")) with ((Silicon or "Si"))) same (hydrogen ) and "423"/644-658.3.ccls.                                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/03/13 13:29 |
| S17 | 65     | ((lithium or "Li") or (Sodium or "Na") or (Potassium or "K")) with ((Silicon or "Si"))) same (hydrogen ) and "423"/644-658.3.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/03/13 13:46 |
| S18 | 8018   | ((lithium or "Li") or (Sodium or "Na") or (Potassium or "K")) with ((Silicon or "Si"))) same (hydrogen )  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/03/13 13:47 |
| S19 | 116    | ((lithium or "Li") or (Sodium or "Na") or (Potassium or "K")) with ((Silicon or "Si")) and 423/644-658.3.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/03/13 14:01 |

## EAST Search History

|     |       |   |   |    |    |                  |
|-----|-------|---|---|----|----|------------------|
| S20 | 71    | ((lithium or "Li" ) with ((Silicon or "Si")) and 423/644-658.3.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/03/13 14:19 |
| S21 | 21319 | ((lithium or "Li" ) near4 ((Silicon or "Si"))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/03/13 14:19 |
| S22 | 11165 | ((lithium or "Li" ) near2 ((Silicon or "Si"))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/03/13 14:20 |
| S23 | 1400  | ((lithium or "Li" ) near2 ((Silicon or "Si")) and hydrogen  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/03/13 14:20 |
| S24 | 100   | ((lithium or "Li" ) near2 ((Silicon or "Si")) and hydrogen and "428"/\$.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/03/13 14:23 |
| S25 | 4     | ((lithium or "Li" ) with ((Silicon or "Si")) same (hydrogen with (stor\$5 or sorb\$5 or adsorb\$5))and "428"/\$.ccls. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/03/13 14:26 |
| S26 | 92    | ((lithium or "Li" ) with ((Silicon or "Si")) same (hydrogen with (stor\$5 or sorb\$5 or adsorb\$5))                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/03/13 17:55 |
| S27 | 142   | ((sodium or "Na" ) with ((Silicon or "Si")) same (hydrogen with (stor\$5 or sorb\$5 or adsorb\$5))                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/03/13 17:56 |
| S28 | 92    | ((lithium or "Li" ) with ((Silicon or "Si")) same (hydrogen with (stor\$5 or sorb\$5 or adsorb\$5))                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/03/13 17:56 |
| S29 | 109   | S27 not S28   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/03/13 17:56 |
| S30 | 2     | "aluminum carbide" same (hydrogen with (stor\$5 or sorb\$5 or adsorb\$5))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/03/14 10:27 |
| S31 | 1382  | ((Aluminum or "Al" ) with (Carbon or "C")) same (hydrogen with (stor\$5 or sorb\$5 or adsorb\$5))                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/03/14 10:29 |

## EAST Search History

|     |      |   |   |    |     |                  |
|-----|------|---|---|----|-----|------------------|
| S32 | 58   | ((Aluminum or "Al") with (Carbon or "C")) same (hydrogen with (stor\$5 or sorb\$5 or adsorb\$5)) and 423/644-658.3.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2006/03/14 12:19 |
| S33 | 7    | ((potassium or "K") with (silicon or "Si")) same (hydrogen with (stor\$5 or sorb\$5 or adsorb\$5)) and 423/644-658.3.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2006/03/14 12:45 |
| S34 | 4    | lemon-john  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2006/03/14 12:45 |
| S35 | 4    | lemon-john.in.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2006/03/14 14:19 |
| S36 | 3    | "6834508"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2006/03/14 14:20 |
| S37 | 8    | "6030724"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2006/03/14 14:20 |
| S38 | 1880 | ((Zirconium or "Zr") or (Titanium or "Ti") or (Aluminum or "Al")) with ((Carbon or "C")) same (hydrogen with (stor\$5 or sorb\$5 or adsorb\$5))                         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2006/03/14 14:47 |
| S39 | 99   | ((Zirconium or "Zr") or (Titanium or "Ti") or (Aluminum or "Al")) with ((Carbon or "C")) same (hydrogen with (stor\$5 or sorb\$5 or adsorb\$5)) and 423/644-658.3.ccls. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2006/03/14 14:47 |
| S40 | 53   | "4285732"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2006/03/20 16:08 |
| S41 | 49   | "4285732"   | USPAT                                     | OR | ON  | 2006/03/20 16:08 |
| S42 | 1    | "4285732".pn.   | USPAT                                     | OR | ON  | 2006/03/20 16:08 |
| S43 | 303  | ((germanium or "Ge") with ((potassium or "K") or (sodium or "Na"))) same (hydrogen with (generat\$4 or produc\$4 or obtain\$4 or procur\$4)))                           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2006/04/29 17:40 |
| S44 | 9    | 423/648.1-658.3.ccls. and (((germanium or "Ge") with ((potassium or "K") or (sodium or "Na")))))  | USPAT                                     | OR | OFF | 2006/05/05 11:41 |

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|     |        |   |   |    |     |                  |
|-----|--------|---|---|----|-----|------------------|
| S45 | 14     | 423/648.1-658.3.ccls. and (((germanium or "Ge") same ((potassium or "K") or (sodium or "Na")))))  | USPAT                                     | OR | OFF | 2006/05/05 11:52 |
| S46 | 53     | (fuel with cell) and (((germanium or "Ge") same ((potassium or "K") or (sodium or "Na")))))   | USPAT                                     | OR | OFF | 2006/05/05 11:52 |
| S47 | 18     | (lithium with germanium) same (hydrogen with (mak\$4 or produc\$4 or obtain\$4 or yield\$4))  | USPAT                                     | OR | OFF | 2006/05/09 12:16 |
| S48 | 363    | (lithium with germanium) and (hydrogen with (mak\$4 or produc\$4 or obtain\$4 or yield\$4))   | USPAT                                     | OR | OFF | 2006/05/09 12:16 |
| S49 | 7      | "6030724"   | USPAT                                     | OR | OFF | 2006/05/30 13:02 |
| S50 | 29298  | ((potassium or "K") or (sodium or "Na")) with (silicon or "Si")   | USPAT                                     | OR | OFF | 2006/05/30 13:16 |
| S51 | 103484 | ((potassium or "K") or (sodium or "Na")) with (silicon or "Si")   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2006/05/30 13:21 |
| S52 | 26904  | ((potassium or "K") or (sodium or "Na")) with (silicon or "Si") and hydrogen  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2006/05/30 13:22 |
| S53 | 10415  | ((potassium or "K") or (sodium or "Na")) with (silicon or "Si") and (hydrogen with (produc\$4 or obtain\$4 or stor\$4 or yield\$4 or generat\$4)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2006/05/30 13:35 |
| S54 | 3716   | ((potassium or "K") or (sodium or "Na")) with (silicon or "Si") and "423"/\$.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2006/05/30 13:36 |
| S55 | 2040   | ((potassium or "K") or (sodium or "Na")) with (silicon or "Si") and "423"/\$.ccls. and hydrogen   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2006/05/30 14:17 |
| S56 | 981    | ((potassium or "K") ) with (silicon or "Si") and "423"/\$.ccls. and hydrogen  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2006/05/30 16:17 |
| S57 | 546    | ((potassium or "K") ) with (silicon or "Si") and "423"/\$.ccls. and hydrogen with (stor\$4 or produc\$4 or obtain\$4 or procur\$4 or generat\$4)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2006/05/30 17:02 |

## EAST Search History

|     |       |   |   |    |    |                  |
|-----|-------|---|---|----|----|------------------|
| S58 | 132   | ((potassium or "K") ) near3 (silicon or "Si") and "423"/\$.ccls. and hydrogen with (stor\$4 or produc\$4 or obtain\$4 or procur\$4 or generat\$4)                                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/05/31 11:14 |
| S59 | 52016 | ((aluminum or "Al") or (calcium or "Ca")) with (boron or "B") and (hydrogen with (stor\$4 or produc\$4 or recover\$4 or obtain\$4 or yield\$4 or procur\$4))                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/05/31 10:30 |
| S60 | 52016 | ((aluminum or "Al") or (calcium or "Ca")) with (boron or "B")) and (hydrogen with (stor\$4 or produc\$4 or recover\$4 or obtain\$4 or yield\$4 or procur\$4))                         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/05/31 10:31 |
| S61 | 8790  | ((aluminum or "Al") or (calcium or "Ca")) with (boron or "B")) same (hydrogen with (stor\$4 or produc\$4 or recover\$4 or obtain\$4 or yield\$4 or procur\$4))                        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/05/31 10:31 |
| S62 | 863   | ((aluminum or "Al") or (calcium or "Ca")) with (boron or "B")) same (hydrogen with (stor\$4 or produc\$4 or recover\$4 or obtain\$4 or yield\$4 or procur\$4)) and "423"/\$.ccls.     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/05/31 10:32 |
| S63 | 351   | ((aluminum or "Al") or (calcium or "Ca")) near4 (boron or "B")) same (hydrogen with (stor\$4 or produc\$4 or recover\$4 or obtain\$4 or yield\$4 or procur\$4)) and "423"/\$.ccls.    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/05/31 13:55 |
| S64 | 293   | ((aluminum or "Al") or (calcium or "Ca")) near3 (boron or "B")) same (hydrogen with (stor\$4 or produc\$4 or recover\$4 or obtain\$4 or yield\$4 or procur\$4)) and "423"/\$.ccls.    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/05/31 11:12 |
| S65 | 1     | ((aluminum or "Al") or (calcium or "Ca")) near3 (boron or "B")) same (hydrogen with (stor\$4 or produc\$4 or recover\$4 or obtain\$4 or yield\$4 or procur\$4)) and 420/578,400.ccls. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/05/31 11:13 |
| S66 | 39    | ((aluminum or "Al") or (calcium or "Ca")) near3 (boron or "B")) and 420/578,400.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/05/31 11:13 |
| S67 | 2     | ((potassium or "K") ) near3 (silicon or "Si") and "423"/\$.ccls. and 420/578,400.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/05/31 11:14 |

## EAST Search History

|     |   |  |   |    |    |                  |
|-----|---|--|---|----|----|------------------|
| S68 | 7 | ((potassium or "K") or (sodium or "Na") ) near3 (silicon or "Si") and "423"/\$.ccls. and 420/578,400.ccls. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/05/31 11:15 |
|-----|---|--|---|----|----|------------------|